## SSUE SLIP STAPLE AREA ( Tross references)

| POSITION            | INITIALS | ID NO. | DATE     |
|---------------------|----------|--------|----------|
| FEE DETERMINATION   | KI       | 7559   | 711      |
| O.I.P.E. CLASSIFIER | 1 .      | 16     | 12.299   |
| FORMALITY REVIEW    | DW       | 72346  | 12-23-19 |

## INDEX OF CLAIMS

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    |   | Interference |
| - | (Through numeral) Canceled | _ | Appeal       |
| ÷ | Restricted                 |   | Objected     |

| Claim  |   |               |                       |  |   |  |           | 1        | Ci       | aim      | m Date  |         |                 |         |          |  |          |  |          |     | 0             | iT            |              |                 |          |  |              |  |          |  |  |  |
|--|---|---------------|-----------------------|--|---|--|-----------|----------|----------|----------|---|---------|-----------------|---------|----------|--|----------|--|----------|-----|---------------|---------------|--------------|-----------------|----------|--|--------------|--|----------|--|--|--|
|  | 2/12/   | 1             | $\Box$                | T                                      | Т   | $\top$                                       | Т         | 1        | <u> </u> | r - l    | 67  | 13      | 7/              | -1      |          | $\overline{}$                                    | Ť        | Т                                      | _        | -   |               | aim           | Т            |                 |          | _Da  | ite          | ·  | Τ-       | _  |  |  |
| Final<br>Original                                | . // //   |               | 1 1                   |  |   | -  |           | İ        | =        | Original | •   | 71      | 20              | -       |          | ١  |          | -                                      |          | 1   | _             | Original      | -            | ļ               |          |  | 1            |  | ı        |  |  |  |
| Original<br>Pinal                                |   | 7]<br>61_     | 1 1                   |  |   |  | 1         |          | Final    | 5        |   |         | $\mathcal{L}_2$ | ļ       |          |  |          | - [                                    |          |     | Final         | 힅             | 1            |                 |          |  | 1            |  |          | 1  |  |  |
| (1)  | 17  | 7             | 17                    |  |   |  | ╁         | 1        | _        | 51       | 4   | 3       | ~               | -       | +        |  | +        | ╁                                      | +        | 1   | ۳             |               | +            | +               | 4        | 4  | ╀            | 4  | Ļ        | ╀  |  |  |
| 13   | -i  | $\top$        | 1                     | $\neg$                                 | 1   | +  | _         | 1        | 4        | 52       | 7   | 7       |                 | -       | $\dashv$ | +  | +        | +                                      | ┨—       | 1   | -             | 110           |              | +               | 4        | _  | ↓_           | ↓.   | ┺        | ┺  |  |  |
| 1 1  | 1 1   | +             | +                     | -                                      |   | +-   | ╆╌        | 1        | H        | 53       | +   | Ç 4     | $\dashv$        | -       | $\dashv$ | +  | +        | +-                                     | - -      | -   | -             | 112           | -            | 1               | ╀        | ┸  | L            | 1  | L        | $\perp$  |  |  |
| 1  | +-+   | _             | ╁╼╂                   | $\rightarrow$                          |   | -  | -         | 1        | $\vdash$ | 54       | +   |         | _               |         | -        | _  | 4        | _                                      | _        | 1   | L             | 113           | ┵            |                 |          | L  | L.           | L  | 1        | 1  |  |  |
|  | +   | -             | +1                    | -                                      | +   | +  | H         | 1        | $\vdash$ | 55       | +   | -       |                 |         | +        | +  | +        | 4                                      |          |     | L             | 114           | ┸            | ┸               | $\perp$  |  |              |  |          |  |  |  |
| 6  | <del>-  -</del>                                   | +             | 1-1                   |  |   | +  | -         | -        | -        | _        | +   | -       |                 |         | $\dashv$ | +  | $\perp$  | ┸                                      | 4_       | 1   | $\perp$       | 115           | $\perp$      | ┸               | Ш        |  |              |  |          | Г  |  |  |
| <del>-  } -</del>                                | +-  | +             | $\vdash$              | +                                      | +   | +  | ├         | ł        | -        | 56<br>57 | 4   | 4       | _               | -       | 4        | $\bot$   | ┸        | 1                                      |          |     |               | 116           |              |                 |          | Ι  |              |  |          | Г  |  |  |
|  | ╃   | +-            | ╁╌╁                   | +                                      | -   |  | -         | -        | <u> </u> |          | -   | _       | _               | 4       |          | 1  | ┸        | ┸                                      |          | ]   |               | 117           | ⊥.           | L               |          | Т  | Γ            | П  |          | Т  |  |  |
| <del>- 141</del>                                 | +++   |               | ╁                     |  | —ļ_   |  | ┞         | -        | H        | 58       | 4   | 4       | _               | 4       |          |  | $\perp$  | L                                      | L.       | ļ   |               | 118           |              | Т               | Т        | Г  |              | Τ  |          | Т  |  |  |
|  |   |               | ╁╌┼                   |  |   |  | Ь.        |          | $\vdash$ | 59       | _   | 4       | 4               |         |          | $\perp$  | ┸        |  |          |     |               | 119           | Т            | Т               | Т        | Т  |              | 1  |          | 1  |  |  |
| 1D   | +   | +-            | ┦                     | 4                                      |   |  | _         | 1        | Щ        | 60       | _   | _ _     |                 | $\perp$ |          | L  | Ĺ        |  |          |     | П             | 110           | T            | $\top$          |          |  | $\vdash$     | 1  | _        | $\vdash$   |  |  |
| -1.11  | ++  | -             | $\vdash$ $\downarrow$ | -                                      | 4   | _  | L         | ,        | Ш        | 61       | $\perp$   | $\perp$ | _               | $\perp$ | $\perp$  |  |          | Τ                                      |          |     |               | 111           | T            | $\top$          | 1        | ;  |              | <b>†</b>   |          | ┿  |  |  |
| 12<br>(13)                                       | 4   |               | Ш                     |  |   |  |           | İ        |          | 62       | $\perp$   | $\perp$ |                 |         |          |  | T        | Т                                      |          | ]   | $\Box$        | 112           | $\top$       | 1               | T        | $\vdash$   |              | $\vdash$   | ┪        | ✝  |  |  |
| 13   | +   | —             | $\sqcup$              |  | $\perp$   | <u>بــــــــــــــــــــــــــــــــــــ</u> |           | l        | Ш        | 63       |   |         | J               | $\prod$ |          | $\Gamma$   | Π        | Τ                                      |          |     | -             | 113           | $\top$       | +               | 1        | $\vdash$   | $\vdash$     | ┢  | $\vdash$ | $\vdash$   |  |  |
| 14   | +   | $\bot$        | $\sqcup$              | $\perp$                                | 1   | $\perp$                                      | لـــا     |          | -        | 64       | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | floor   | $ \mathbb{J} $  | [       |          | Т  |          | Τ                                      |          |     | -             | 114           | $\top$       | +               | ╽.       | †  | <del> </del> | ļ-   | ┝        | ┢  |  |  |
| 15<br>15   | +   | $\perp$       | Ц                     | $\perp$                                |   | $\perp$                                      | $\Box$    |          | Ш        | 65       | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | Ι       | T               | T       | $\top$   | T  | T        | Τ                                      | T        |     | $\overline{}$ | 115           | 十            | T               | 1        | ,,   | $\vdash$     | <del>                                     </del> | -        | <del>                                     </del> |  |  |
| 1181_  | 1   |               |                       |  | 1.  |  |           |          |          | 66       | Т   | T       | $\top$          | $\neg$  |          | Τ  | T        | T                                      | 1        |     | ↦             | 116           | +-           | ╁               | ξij,     | <del>                                     </del> | -            | ⊢  | ┝        | ├  |  |  |
| 11/2   |   | <u>.</u>      |                       |  |   |  |           |          |          | 67       | $\top$  | $\top$  | $\neg$          |         | $\top$   | $\top$   | 1        | 1                                      |          |     | _             | 117           | +-           | +               | +-       | ├  | -            | $\vdash$   | -        | ⊢  |  |  |
| 17<br>(18)<br>(19)<br>(20)                       |   |               |                       |  | Т   | Т  |           |          |          | 68       | T   | 1       | T               | 7       | 1        | 1  | +        | ╈                                      | $\vdash$ |     | -             | 118           | ╁            | ╁               | ╁        | ├  | -            | -  | _        | -  |  |  |
| _(4)_  |   | $\Box$        |                       | Т                                      | $\top$  |  | $\neg$    | i        |          | 69       | _   | _       | +               | $\top$  | +        | ╁╴   | +        | ╁                                      | ╁┤       |     | -             | 119           | +-           | ╀╌              | ├        | ┈  | _            | $\vdash$   |          | L  |  |  |
| 2b   | 1   |               | $\neg$                |  |   |  | $\neg$    |          | $\neg$   | 70       | +   | +       | $\dashv$        | ╁       | +-       | +-   | ╁        | ╁                                      | +        |     | $\overline{}$ | _             | ╁            | ╄               | ┼        |  | _            | _  |          | <u> </u>   |  |  |
| (41)   |   | 11            | _                     | $\neg$                                 | +   | +  | $\dashv$  |          | -        | 71       | ╅   | - -     | +               | +-      | +-       | ╀  | ⊬        | ╀                                      | -        |     |               | 20            | ╀-           | 1_              | _        | $oldsymbol{oldsymbol{oldsymbol{eta}}}$           |              |  |          | L  |  |  |
| 4  | 1//   | 1             | 十                     | +                                      | +   | +  | ⊣         | 1        | _        | 72       | +   | ╫       | +               | +       | -        | +-   | ╀        | ╄                                      | $\vdash$ |     | $\overline{}$ | 121           | <u> </u>     | ┺               | L        | <u> </u>   |              |  |          | L  |  |  |
| 23 √   | <del>∦</del> /i≘                                  | ╧┤            |                       | +                                      | ┿   | +  | -         |          | _        | 73       | +   | +       | -               | +       | +        | ╄  | ₩        | ↓_                                     | -        |     |               | 22            | ↓            | 1_              | L        | Ц  |              |  |          |  |  |  |
| 24   | 111   | 1             | +                     | +                                      | +   | ╂  | -1        | -        | _        | 74       | ╀   | +       | +               | +       | +        | ↓_   | ┡        | -                                      | $\sqcup$ |     |               | 123           |              | $\perp$         |          |  |              |  |          |  |  |  |
| 25   | ╫╫  | ╁             | -+                    | -                                      | +-  | +  | $\dashv$  | -        |          |          | +   | +       | +               | 4       | —        | ╄  | _        | ــــــــــــــــــــــــــــــــــــــ | $\vdash$ | - 1 | [1            | 124           |              |                 |          |  |              |  |          |  |  |  |
| 26   | ╫╫┤   | ╁             | +                     | +                                      | +   | ╁┼   |           | ŀ        |          | 75       | 4-  | +       | +               | +       | 1        | ╨  | ╙        | <u> </u> _                             | Ш        | ļ   | [1            | 25            |              |                 |          |  |              |  |          | П  |  |  |
| 27   | +++   | +             | +                     | +                                      | ┥—  | ╁  | -4        | -        | _        | 76       | +   | ╀       | 4               | _       | 4        | ┺  |          |  | Ш        | l   | 1             | 26            |              |                 |          |  |              |  | . 1      | П  |  |  |
|  |   | +             | -                     | +                                      | +   | $\vdash$                                     | 4         | -        | _        | 77       | $\perp$   | $\perp$ |                 | $\perp$ | $\perp$  |  |          |  | LI       |     | 1             | 27            |              | Π               |          |  |              |  |          | $\neg$   |  |  |
| 28   | +++   | $\vdash$      | _                     | -                                      |   | $\sqcup$                                     | _         | ļ        | _        | 78       | $\perp$   | $\perp$ | $\perp$         |         |          | L  |          | ļ                                      | П        |     | 1             | 28            |              |                 |          |  | _            |  | $\neg$   | $\neg$   |  |  |
| 7 29   | $\mathcal{U}_{\mathcal{X}}$                       | $\perp$       | -                     | $\perp$                                | _   | <u> </u>                                     |           | L        |          | 79       | ┸   | $\perp$ |                 |         |          | Γ  |          | Г                                      | П        | 1   | 1             | 29            | $\top$       |                 |          |  |              | $\neg$   | -        | -  |  |  |
| 30   |   | $\sqcup$      |                       | 4                                      | ┸   | $\sqcup$                                     | ┙         |          |          | 70       |   |         |                 | I       | Г        | T  |          | Γ                                      | П        | 1   | 1             | 30            |              |                 |          |  | _            | _  | -        | $\dashv$   |  |  |
| 31 C   | رفر   | $\sqcup$      | $\bot$                | ــــــــــــــــــــــــــــــــــــــ |   | $\sqcup$                                     | ┙         |          |          | 31       |   |         |                 | Т       | Т        | Г  |          |  | П        | Ī   | 1             | 31            | $\vdash$     |                 | Н        | $\neg$   | 7            | -  | -        | +  |  |  |
| 0 32 V   | 141   | $\sqcup$      |                       | $\perp$                                |   | $\sqcup$                                     | ┙         | L        | _ [8     | 32       |   |         | Т               |         | T        | Π  |          |  | П        | 1   | _             | 32            |              | 1               | $\vdash$ | -  | 7            | $\neg$   | -        | ┰  |  |  |
| 33 1   | $\prod$   |               |                       | $\perp$                                | Ш.,   |  |           |          | 8        | 33       |   | Τ       |                 | Т       | $\top$   | Т  | Т        |  | П        | ı   |               | 33            | 1            |                 | Н        | -  | -+           | -  | -        | ⇥  |  |  |
| 34   | H/H   |               |                       | L.                                     | L   |  |           | ſ        | 8        | 14       | Τ   | Т       | T               | $\top$  |          | _  |          |  | Ħ        | t   |               | 34            | ╁─           |                 |          | -  | -            | ┰  | $\dashv$ | $\dashv$   |  |  |
| 35 V   | WI  | Ш             |                       | ┙                                      | $oldsymbol{ol}}}}}}}}}}}}}}}$ |  |           | Γ        | 8        | 15       | T   | Τ       | $\top$          | 1       | Ţ.       | Т  | М        | $\vdash$                               | Н        | - } |               | 35            | $\vdash$     | $\vdash$        | -        | -  | $\dashv$     | $\dashv$   | $\dashv$ | $\dashv$   |  |  |
| <i>J</i> 36)=                                    |   | $\Box$        |                       | Τ                                      | Г   |  |           | - 1      | 18       | 6        | $\top$  | T       | T               | $\top$  | $\top$   | <del>                                     </del> |          |  | Н        | ŀ   |               | 36            | -            | $\vdash$        | $\dashv$ | -  | $\dashv$     | $\dashv$   | 4        |  |  |  |
| 37   | M   |               |                       |  | Т   | $\sqcap$                                     |           | T        | - 8      | 7        | $\top$  | ╁       | $^{\dagger}$    | $\top$  | $\top$   | <del>                                     </del> | $\vdash$ | Н                                      | H        | - } | _             | 37            | -            | $\vdash$        | $\dashv$ | -  | $\dashv$     | $\dashv$   | 4        |  |  |  |
| 38 /   | r   | П             |                       |  |   | $\sqcap$                                     | 7         | - 1      | _        | 8        | ╅   | T       | $^{+}$          | +       | +        | <del>                                     </del> | $\vdash$ | Н                                      | H        | - } | 1:            | -             | ⊢            | $\vdash \vdash$ | -        |  | -            | 4  | $\dashv$ | 4  |  |  |
| 39   | 111   | $\Gamma$      | $\neg$                | $\top$                                 |   | $\sqcap$                                     | $\exists$ | ı        |          | 9        | +-  | +       | ╁               | +-      | +        | $\vdash$   | H        | Н                                      | H        | -   |               | $\rightarrow$ | <del> </del> |                 |          | -  | -            | -  | 4        | 4  |  |  |
| 40<br>41   | 1111  | $\sqcap$      | +                     | $\top$                                 | +   | <del>[  </del>                               | $\dashv$  | <u> </u> | -        | 0        | ┿   | +-      | +               | +       | +        | $\vdash$   | $\vdash$ | Н                                      | H        | -   |               | 39            | _            |                 | _        |  | 4            | $\perp$  | _        |  |  |  |
| 31   | 11/1  | 1             | +-                    | +-                                     | +-  | 1  | $\dashv$  | -        |          |          | +-  | ╁       | +-              | +       | +        | <b>-</b>   |          |  | Ш        | -   | _             | 10            | L            | Ц               | _        | $\perp$  |              |  |          | $_{\perp}$                                       |  |  |
| 42 V<br>43 O<br>A4 V<br>45 =<br>46 47 48 49 50 - | <del>( /                                   </del> | ╁             | +                     | +-                                     | -   | -  | -         | -        | 9        |          | +-  | $\perp$ | - -             | +-      | 4        | <u> </u>   | Ш        | Ш                                      | Щ        | L   | 1.            |               | L            | ╚               | [        |  | Ţ            | T  | T        | T  |  |  |
| 43 1   | ᄊ   | ┯             | +                     | +                                      | ┼-  | $\vdash \vdash$                              | 4         | L        | _        | 2        | ╄-  | $\perp$ | _               | 1       | _        | Щ  | Ш        |  | Ш        |     |               | 12            |              |                 |          |  | 1            | $\neg$   | ┪        | 寸  |  |  |
| 1210   | M   | ⊢⊦            | -                     | +-                                     | $\vdash$  | $\vdash \vdash$                              | 4         | L        |          | 3        | _   | L       | 1               | $\bot$  | _        |  |          | $oxed{oxed}$                           |          |     | 14            | 13            |              |                 |          |  | ┪            | $\neg$   | 十        | $\top$   |  |  |
| V44 V  | И   | $\vdash$      | -                     | +                                      | $\perp$   | $\sqcup$                                     |           | L        |          | 4        | $\perp$   | 1       | $\perp$         | ┸       |          |  |          |  |          | Γ   | 14            | 14            |              |                 | $\neg$   | 1  | $\top$       | $\top$   | †        | 7  |  |  |
| 427  | 7   | $\vdash$      |                       | +-                                     | Ш   | $\sqcup$                                     | ┙         | L        | 9        |          | L   |         | L               | $\perp$ |          |  |          |  |          | ٢   | 14            | 15            |              | _               | _        | +  | -            | 十  | +        | 十  |  |  |
| 46   | $\sqcup \sqcup \sqcup$                            | $\sqcup \bot$ | $\perp$               | $\perp$                                |   |  |           |          | 9        | 6        | $\prod$   | Γ       | Γ               | Τ       | Г        |  |          | 7                                      | 7        | ۲   | 14            | _             | П            | 十               | $\dashv$ | $\dashv$   | +            | +  | +        | +  |  |  |
| 47   | $\mu \mu \mu$                                     |               |                       |  |   |  | _         | ſ        | 9        | 7        |   | Γ       | Γ               | Г       | Γ.       |  |          |  |          | r   | 14            |               |              | _               | $\dashv$ | -  | +            | +  | +        | +  |  |  |
| 48   |   | $\Box I$      | $\int$                | $oxed{\Box}$                           |   |  |           |          | 9        |          | Τ   | Τ       | 1               | 1       | $\top$   | $\vdash$   |          | $\exists$                              | $\dashv$ | H   | 14            | _             |              | $\dashv$        | $\dashv$ | +  | +            | +  | +        | +  |  |  |
| 49   |   |               |                       |  | П   |  | $\neg$    |          | 9        | 9        | 1   | T       | T               | $\top$  |          | Н  | _        | $\dashv$                               | $\dashv$ | -   | 14            | _             | -            | -+              | ┰        | +  | +            | +  | +        | +  |  |  |
| 150  | 1   |               |                       | $\overline{}$                          | $\Box$  |  | ┥.        | _        | 10       | _        | +-  | +       | +-              |         | +-       | -  | _        | $\dashv$                               |          | - ⊢ | 15            |               |              | 1               | L        | 1  | - 1          |  | - 1      | - 1  |  |  |

If more than 150 claims or 10 actions staple additional sheet here

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